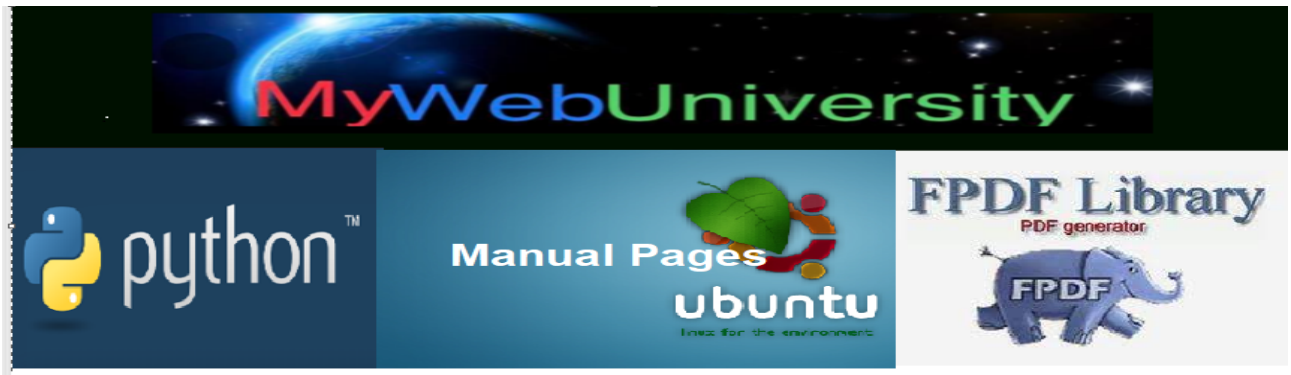

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Linux Ubuntu 26.04 Manual Pages on command 'aio_cancel.3'

$ man aio_cancel.3

aio_cancel(3) Library Functions Manual aio_cancel(3)

NAME

aio_cancel - cancel an outstanding asynchronous I/O request

LIBRARY

Real-time library (librt, -lrt)

SYNOPSIS

#include <aio.h>

int aio_cancel(int fd, struct aiocb *aiocbp);

DESCRIPTION

The aio_cancel() function attempts to cancel outstanding asynchronous I/O requests for the file descriptor fd. If aiocbp is NULL, all such requests are canceled. Otherwise, only the request described by the control block pointed to by aiocbp is canceled. (See aio(7) for a description of the aiocb structure.)

Normal asynchronous notification occurs for canceled requests (see aio(7) and sigevent(3type)). The request return status (aio_return(3)) is set to -1, and the request error status (aio_error(3)) is set to ECANCELED. The control block of requests that cannot be canceled is not changed.

If the request could not be canceled, then it will terminate in the usual way after perform? ing the I/O operation. (In this case, aio_error(3) will return the status EINPROGRESSS.)

If aiocbp is not NULL, and fd differs from the file descriptor with which the asynchronous operation was initiated, unspecified results occur.

Which operations are cancelable is implementation-defined.

RETURN VALUE

The aio_cancel() function returns one of the following values:

AIO_CANCELED

All requests were successfully canceled.

AIO_NOTCANCELED

At least one of the requests specified was not canceled because it was in progress.

In this case, one may check the status of individual requests using aio_error(3).

AIO_ALLDONE

All requests had already been completed before the call.

-1 An error occurred. The error can be found by inspecting errno.

ERRORS

EBADF fd is not a valid file descriptor.

ENOSYS aio_cancel() is not implemented.

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

Interface	Attribute	Value
aio_cancel()	Thread safety	MT-Safe

STANDARDS

POSIX.1-2008.

HISTORY

glibc 2.1. POSIX.1-2001.

EXAMPLES

See aio(7).

SEE ALSO

aio_error(3), aio_fsync(3), aio_read(3), aio_return(3), aio_suspend(3), aio_write(3), lio_listio(3), aio(7)